Product information

BCKDHA, 46-445 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0944

Full name: 2-oxoisovalerate dehydrogenase subunit alpha

NCBI Accession No.: NP_000700

Synonyms: BCKDE1A, BCKDH E1-alpha, MSU, MSUD1, OVD1A

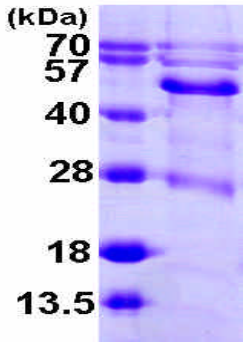
Description: BCKDHA (branched-chain α-keto acid dehydrogenase E1 component α chain), also known as 2-oxoisovalerate dehydrogenase subunit alpha, belongs to the BCKDHA family. The branched-chain alpha-keto acid dehydrogenase complex is an innter mitochondrial enzyme complex that catalyzes the second major step in the catabolism of the branched-chain amino acids leucine, isoleucine, and valine. The BCKD complex consists of three catalytic components: a heterotetrameric (alpha2-beta2) branched-chain alpha-keto acid decarboxylase (E1), a dihydrolipoyl transacylase (E2), and a dihydrolipoamide dehydrogenase (E3). Recombinant human BCKDHA protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 30% glycerol, 0.2M NaCl

Molecular Weight: 47.8kDa (421aa) confirmed by MALDI-TOF

Purity: > 80% by SDS - PAGE

Concentration: 0.25 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MSSLDDKPQF PGASAEFIDK LEFIQPNVIS GIPIYRVMDR QGQIINPSED PHLPKEKVLK LYKSMTLLNT MDRILYESQR QGRISFYMTN YGEEGTHVGS AAALDNTDLV FGQYREAGVL MYRDYPLELF MAQCYGNISD LGKGRQMPVH YGCKERHFVT ISSPLATQIP QAVGAAYAAK RANANRVVIC YFGEGAASEG DAHAGFNFAA TLECPIIFFC RNNGYAISTP TSEQYRGDGI AARGPGYGIM SIRVDGNDVF AVYNATKEAR RRAVAENQPF LIEAMTYRIG HHSTSDDSSA YRSVDEVNYW DKQDHPISRL RHYLLSQGWW DEEQEKAWRK QSRRKVMEAF EQAERKPKPN PNLLFSDVYQ EMPAQLRKQQ ESLARHLQTY GEHYPLDHFD K

General references:

Nobukuni Y., *et al.* (1993) *Biochim. Biophys. Acta* 1225:64-70

Funchal, C., *et al.* (2005) *Metab. Brain Dis.* 20: 205-217

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: +1 (763) - 780-2955 Fax.: +1 (763) - 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com